

| | | | |
|----|------|---|------|
| Db | 1501 | CATCAGACGACGAGCTCCAGCACCCAGCATTCGAGAAAGAACTGGAGAAATCCAGCTC | 1560 |
| Qy | 1561 | ctcgcaagcagaagacagcagctctgccccttccaccacacttgagacacggtcacaagcagc | 1620 |
| Db | 1561 | CTCGACGACGACGACGACGAGCTGCCCTTCACACCACTGGAGACAGCGCTCAGAGCGC | 1620 |
| Qy | 1621 | gaagctctgtaacagctctgcccgtactcagaagactctggcaccagcagccccagcag | 1680 |
| Db | 1621 | GAGCTCTCTGGACACGCTCTGGCCCGGTACTCAGAGAGACTCGGGGACACGACGCCACGACG | 1680 |
| Qy | 1681 | tcccccagggtcccaaacctctgctctccggcagctctgcttccaaagctcggcagc | 1740 |
| Db | 1681 | TCCCCCAGGGGCTCTCCAAACCACTGCTCTCTCCGGACGCTCTGCCCTCCAAAGGCTGGACG | 1740 |
| Qy | 1741 | agccccctcccttgaaacaagacgcatgagatgagagaaacagcgctgtaagttgggaaa | 1800 |
| Db | 1741 | AGCCCCCTCCCTGGACACAGACCATGGAATGAGAAACACGCGTGTATGTTGGGAAA | 1800 |
| Qy | 1861 | ggcaatcttgtaacaaccgcgagcgttgccgttgaaagagatcctcccgagttttagcttc | 1920 |
| Db | 1861 | GGCATGCTTTTACAAACCGCGACGTCGGCGTGAAGAGATCCTCCCGATGTTTAACTTC | 1920 |
| Qy | 1921 | ggcaacgctgaagttcagcagctgtttggagaagatctggatlgagacacggaaagtgatccgtac | 1980 |
| Db | 1921 | GCAACCGTGAAGTCCAGCTGTGGCAGATGGATGAGACACCCCAACGTATCCGCTAC | 1980 |
| Qy | 1981 | tctcgcaagcaggaagaagacgcgacatctccagatcatgtccatcgagctgtgcagccac | 2040 |
| Db | 1981 | CTTCGCAAGGAGAAAGACCGGCAATTCCAGTACATTGCCATGAGACTGTGTGACGCCACC | 2040 |
| Qy | 2041 | ctgcaagagtatgttgagacgaagaagacttgcgcatctcgccctggagagccatcaactctg | 2100 |
| Db | 2041 | CTGCAAGATGTGTGGAGCAGAAAGGACTTTGGGCATCTCGGCTTGAGACCCATCACTTG | 2100 |
| Qy | 2101 | ctggaagaagacacacttcgggcccctggcccacccactccctcaatactgttcaagaagac | 2160 |
| Db | 2101 | CTGGACGAGACACCTCTGGGCTGGGCCCTCCACTCCCTCAACATGTGTACAGAAAC | 2160 |
| Qy | 2161 | ctaaagccaacaacaactcctcatcatcatcagccaatgtacagcagcagaagatcaagccatg | 2220 |
| Db | 2161 | CTAAAGCCACACAACATCTCATATCATGCCAATGCAACAGGCAACATCAAGGCCATG | 2220 |
| Qy | 2221 | atctcgaacttggcctctgcagaaagactgycagttggcagacacacagttcaagcccgca | 2280 |
| Db | 2221 | ATCTCCGACTTTGGCCTCTGCAGAAAGCTGGCAGTGGCAGACACAGTTTCAAGCCGCGCA | 2280 |
| Qy | 2281 | tctggagtgcttgagacaagaagactgtgactcgttccagagatgtctgagcgaagactgtaa | 2340 |
| Db | 2281 | TCCTGGGTGGCTTGCAAGAGAGGCTGTGATGGCTCCAGCAATCTCAGGAAAGACTGTAA | 2340 |
| Qy | 2341 | gagaacctactcaacaagcgtgagacatcttctctgcagcgtgctcttactacgtgtgc | 2400 |
| Db | 2341 | GAGAACCTTACCTACAGGCGTGAACATCTTTTCGACAGCTGGCTTTTACTACGTGCTC | 2400 |
| Qy | 2401 | tctgaaggcagcacaaccttltggcaagctccctgcagcggcagggccaacatcctcctggt | 2460 |
| Db | 2401 | TCCTAGGGGACGACCCCTTTTGGCAAGTCCCTGACGGCGCAACATCCTCCTCGGT | 2460 |
| Qy | 2461 | ggctcgagcacttgactgtctgaccccaagagaagcagaagatgtattgtcacgagaattg | 2520 |
| Db | 2461 | GCTCGACGCTTGACTGTCTTGACCCCAAGAGAAACAGAAAGCTATTGCAAGAAATTG | 2520 |
| Qy | 2521 | atagagaagatgtaagtgcatagtga tctctcagaagacgccccctcagcgaacgaacgtgtcaaa | 2580 |
| Db | 2521 | ATAGAGAAAGATGTGGATGTGATCTCTCAAGAAACGCCCTCAAGCAACGACTGCTCAA | 2580 |
| Qy | 2581 | caaccgttctcttgagactagagaagacagctcagttcttcagagcgttgacgacaga | 2640 |

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| Db | 2581 | CACCGTTCCTTGAGAGCCTACAGAAAGCAGCTCCAGTTCCTTCCAGAGACGTGAGCGACACA | 2640 |
| QY | 2641 | atagaaaagaatccctctggaatgagcccgatcgatgaagcaagttagagagagcggaagacc | 2700 |
| Db | 2641 | ATAGAAAAGAATCCCTGATGAGCCCGATCGTGAAGCAGATTAGAGAGAGGCGGAGAGCC | 2700 |
| QY | 2701 | gtgtgtgaagatgagacttgctgaggaagaacatcactgaaacccctccagaacagacttggttaa | 2760 |
| Db | 2701 | GTGTGTGAAGATGAGACTGAGGAGGAACAACACTGACCCCTCCAGACAACTGGGTAA | 2760 |
| QY | 2761 | ttcaggaacctataaaggtgtgtctctcagaagaatctccctcagaccatgagaatatagaag | 2820 |
| Db | 2761 | TTTCAGGAACCTATAAAGGTGTGTCTCTCAGAGATTCTCTCCAGACCATGGAATAAAGAG | 2820 |
| QY | 2821 | caccataccaggaagctgctctgacagaagtgcggaagacgcttgaggaaacctccccagacac | 2880 |
| Db | 2821 | CACCATAACCGGAGACTGCTCTGACAGAGTGGGGAGAGAGCTTGGGACCTCCCGACGAC | 2880 |
| QY | 2881 | ttcgtgtgacttcaagtcgtcgtctcctcccaacctctcgacaacactaccgagcatg | 2940 |
| Db | 2881 | TTTCGTGTGACTTCAAGTCGTCTCGTCTCCCGACCTCTCGACACACTACCGGAGCATG | 2940 |
| QY | 2941 | gagcgtgtgagccaagagagaactcttcagccctactacttccagaagccccagaagccc | 3000 |
| Db | 2941 | GAGCGTGTGAGCCAAGAGAGACTCTTCCAGCCCTACTACTTCCAGAGCCCCCAGAGCCC | 3000 |
| QY | 3001 | cagcccccaagtaccatccaagaagccctctgagcgaagcgagccctctgtctctgtgagccc | 3060 |
| Db | 3001 | CAGCCCCCAAGTACCTCCAGAGCCCTCTGAGCGAGGAGGCGGCCCTCTGTCTGTGTGCCCC | 3060 |
| QY | 3061 | cagctgtgacttgaagcgcttgctacacacaatagaagtctgatatgctcccgctttgcag | 3120 |
| Db | 3061 | CAGCTGTGACTGAGGCGCTGTCTACACACAATTAGACTGTGATGCCCTCCGGCTTTCAGG | 3120 |
| QY | 3121 | gagaccagagcttcccaaaccaagtgtccttgaagtgcctgtctctgcagcccccaagaggata | 3180 |
| Db | 3121 | GAGACCAGAGCTTCCCAAAAGTGTGCTTGAGACTGCTCTCTGCGACGCCACAGAGAGACA | 3180 |
| QY | 3181 | gtagcgaaccccaagagatgggaagaatggccctctgacctgacccaaggaactcgggaagat | 3240 |
| Db | 3181 | GTAGCTGACCCCAAGAGATGGGAGAAAGTGGCCCTCTGACTGACTTACAGGAGAACTGGGAAGT | 3240 |
| QY | 3241 | gcttgcccccaaaagccttaccgtcatgatgcttgcacaagagagcgcttcagagacagcgcg | 3300 |
| Db | 3241 | GCTTGCCCCAAAAGCCTTACGGTCATGATGTCGCAAAAGAGAGGCGCTTCAGAGACAGCGG | 3300 |
| QY | 3301 | agtagacccccagacacatactactgataaacttgtctcaagactttttaattccgtgcta | 3360 |
| Db | 3301 | AGTAGACCCCCAGACCATCTACTGTGATAAACTGTCTCTCAAGCTTTTAAATTCTGCTCTTA | 3360 |
| QY | 3361 | atgtcaagcttacaagcccttcagaagaggaaggaaggaatcgtataatttcttcgtg | 3420 |
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| QY | 3421 | cttggaacacagctagcttgagatgacacaagtacagcccttcaactgtaggaaccggaattagag | 3480 |
| Db | 3421 | CTTGGAACACAGCTAGCTTGAGATGACACCAAGTACAGCCTTCACTGAGAACCGGAATTAGAG | 3480 |
| QY | 3481 | gtgagggaatgctggaagagggaggaagacggaagttcagaagggtgtcgtccgcaatgaga | 3540 |
| Db | 3481 | GTGAGGGAATGCTGGAAGAGGGGAGGAGCGGAGGTTCAGAGGGGTGTCTGCTCGCAGTTAGACA | 3540 |
| QY | 3541 | ttcttcattgatacagaatgtgcagagtagcccaaggtgcactgtaactagtgttctg | 3600 |
| Db | 3541 | TTTCTCATTTGATACAGATGTGCTCCCAAGATTAGCCCAAGTCACTGTTAACTAGTGTTCG | 3600 |
| QY | 3601 | cagagcgcaagagagccagcccggaattc 3629 | |
| Db | 3601 | CAGAGCGCAGAGAGCCAGCCCGGAATTC 3629 | |
| RESULT | 2 | | |
| AB031332 | | | |

RESULT 2
AB031332

LOCUS AB031332 3976 bp mRNA ROD 12-JAN-2001
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 VERSION AB031332.1 GI:12083699
 KEYWORDS protein kinase/endoribonuclease(Irel) alpha.
 SOURCE Mus musculus
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (sites)
 Miyoshi, K., Katayama, T., Imazumi, K., Taniguchi, M., Mori, Y.,
 Hito, J., Yui, D., Manabe, T., Gomi, F., Yoneda, T. and Tohyama, M.
 Characterization of mouse Irelalpha: cloning, mRNA localization in
 the brain and functional analysis in a neural cell line
 Brain Res. Mol. Brain Res. 85 (1-2), 68-76 (2000).
 1116108
 2 (bases 1 to 3976)
 Miyoshi, K.
 Direct Submision
 Submitted (21-AUG-1999) to Miyoshi, Osaka University Medical
 School, Department of Anatomy and Neuroscience, 2-2 Yamadaoka,
 Suita, Osaka 565-0871, Japan
 (E-mail:miyoshi@anat.med.osaka-u.ac.jp, Tel: +81-6-6879-3221,
 Fax: +81-6-6879-3229)
 COMMENT
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 LMIONASPVYAVWQGEVLAKVYHINAVETLLKRLTFPMSGEVGRITKATPFRET
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 IFTAL.
 BASE COUNT 937 a 1098 c 1074 g 867 t
 ORIGIN
 Query Match 69.0%; Score 2503.2; DB 10; Length 3976;
 Best Local Similarity 84.7%; Pred. No. 0;
 Matches 2935; Conservative 0; Mismatches 498; Indels 33; Gaps 10;

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 Qy 540 cccataaacctctctctgtatctctggtggaagaataacatcaatcagatagacac 599
 Db 570 CCCATCAACTCTCCCTTATATCTTGACGAGACGAATACCATGACCATATGATGACAC 629
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| AC025362/c | | | |
| LOCUS | | | |
| DEFINITION | Homo sapiens chromosome 17 clone RP11-89H15 map 17, *** SEQUENCINGS | HTG | 11-AUG-2001 |
| ACCESSION | AC025362 | | |
| VERSION | AC025362.8 | GI:15148305 | |
| KEYWORDS | | | |
| SOURCE | HTG; HTGS_PHASE2; HTGS_FULLTOP; HTGS_ACTIVEFIN. | | |
| ORGANISM | human. | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; | | |
| AUTHORS | Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | |
| TITLE | 1 (bases 1 to 154460) | | |
| JOURNAL | Birren,B., Linton,L., Nisbaum,C. and Lander,E. | | |
| REFERENCE | Homo sapiens chromosome 17, clone RP11-89H15 | | |
| AUTHORS | Unpublished | | |
| | 2 (bases 1 to 154460) | | |
| | Birren,B., Linton,L., Nisbaum,C., Lander,E., Abraham,H., Allen,N., | | |
| | Anderson,S., Baldwin,J., Barna,N., Bastien,V., Bedalov,F., | | |
| | Boguslavsky,I., Boukhgalter,B., Brown,A., Burkett,G., | | |
| | Campopiano,A., Castle,A., Choegl,Y., Colangelo,M., Collins,S., | | |
| | Collamore,A., Cooke,P., Dattellano,K., Dewar,K., Diaz,J.S., | | |
| | Dodges,S., Domino,M., Doyle,M., Ferreira,P., Fitzhub,W., Gage,D., | | |
| | Gallagan,J., Gardyna,S., Glnde,S., Govette,M., Graham,L., | | |
| | Grand-Pierre,N., Grant,G., Hages,B., Heaford,A., Horton,L., | | |
| | Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A., | | |
| | Klein,J., LaRoque,K., Lamazares,R., Landers,T., Lepocky,J., | | |
| | Lefevre,R., Lien,C., Liu,G., Locke,K., MacDonald,P., Marguis,N., | | |
| | McCarthy,M., McGowan,P., McGuirk,A., McKernan,K., McPheters,R., | | |
| | Meldrum,J., Meneus,T., Mihova,T., Miranda,C., Mienna,V., Morrow,J., | | |
| | Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., | | |
| | O'Neill,D., Oliver,T.M., Oliver,J., Peterson,K., Pierre,N., | | |
| | Plesnil,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D., | | |
| | Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B., | | |
| | Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., | | |
| | Vassiliev,H., Vieler,J., Tittel,A., Travers,M., Trigilio,J., | | |
| | Young,G., Zaloudou,J., Zimmer,A. and Zody,M. | | |
| | Direct Submission | | |
| | Submitted (08-MAR-2000) Whitehead Institute/MIT Center for Genome | | |
| | Research, 320 Charles Street, Cambridge, MA 02141, USA | | |
| | On Aug 11, 2001 this sequence version replaced gi:14277304. | | |
| | All repeats were identified using RepeatMasker: | | |
| | Smit, A.F.A. & Green, P. (1996-1997) | | |
| | http://ftp.genome.washington.edu/MN/RepeatMasker.html | | |
| | ----- Genome Center ----- | | |
| | Center: Whitehead Institute/ MIT Center for Genome Research | | |
| | Center code: WIBR | | |
| | Web site: http://www-seq.wi.mit.edu | | |
| | Contact: sequence_submissions@genome.wi.mit.edu | | |
| | ----- Project Information ----- | | |
| | Center project name: I7877 | | |
| | Center clone name: 89_H_15 | | |
| | ----- NOTE: This is a 'working draft' sequence. It currently | | |
| | * consists of 2 contigs. Gaps between the contigs | | |
| | * are represented as runs of N. The order of the pieces | | |
| | * is believed to be correct as given, however the sizes | | |
| | * of the gaps between them are based on estimates that have | | |
| | * provided by the submittor. | | |
| | * This sequence will be replaced | | |
| | * by the finished sequence as soon as it is available and | | |
| | * the accession number will be preserved. | | |
| | * 1 97471: contig of 97471 bp in length | | |
| | * 97472 97571: gap of 100 bp | | |
| | * 97572 154460: contig of 56689 bp in length. | | |
| | * Location/Qualifiers | | |
| | 1..154460 | | |

[illegible]

| LOCUS | AC005803 | 162473 bp | DNA | PRI | 30-Oct-1998 |
|------------|---|------------|-----|-----|-------------|
| DEFINITION | Homo sapiens chromosome 17, clone hRPK.214_C_8, complete sequence. | | | | |
| ACCESSION | AC005803 | | | | |
| VERSION | AC005803.1 | GI:3810668 | | | |
| KEYWORDS | HTG. | | | | |
| SOURCE | human. | | | | |
| ORGANISM | Homo sapiens | | | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | | | |
| AUTHORS | 1 (bases 1 to 162473) | | | | |
| TITLE | Biren,B., Linton,L., Nusbaum,C. and Lander,E. | | | | |
| JOURNAL | Homo sapiens chromosome 17, clone hRPK.214_C_8 | | | | |
| REFERENCE | Unpublished | | | | |
| AUTHORS | 2 (bases 1 to 162473) | | | | |
| TITLE | Biren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M., Baker,J., Baldwin,J., Barna,N., Beckertly,R., Benn,J., Boutwell,C., Brown,A., Castle,A., Cerny,J., Colangelo,M., Collins,S., Collamore,A., Cooke,P., Corliss,D., Depyre,E., Devon,K., Dewar,K., Doneilan,L., Ferreira,P., Fitzlugh,W., Forrest,C., Funke,R., Gage,D., Gargyna,S., Geraijery,K., Grant,G., Hagos,B., Headford,A., Heden,L., Horton,L., Howland,J.C., Jacotot,L., Jones,C., Kann,L., Karats,A., Lehoczy,J., Macdonald,P., Margulis,N., McEwan,P., McMurk,A., McKernan,K., Meldrim,J., Molla,M., Morris,W., Morrow,J., Mychalckyj,J., Nahf,R., Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B., Peterson,K., Riley,R., Roberts,D., Roy,A., Severy,P., Stange-Thomann,N., Stillwell,J., Stojanovic,N., Stone,C., Subramanian,A., Tesfaye,S., Tichovolsky,N., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A., Wheeler,J., Wu,Y., Wyman,D., Ye,W.J., Zhao,J. and Zody,M. | | | | |
| JOURNAL | Direct Submission | | | | |
| REFERENCE | Submitted (08-Oct-1998) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA | | | | |
| AUTHORS | 3 (bases 1 to 162473) | | | | |
| TITLE | Biren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M., Baker,J., Baldwin,J., Barna,N., Beckertly,R., Benn,J., Boutwell,C., Brown,A., Castle,A., Cerny,J., Colangelo,M., Collins,S., Collamore,A., Cooke,P., Corliss,D., Depyre,E., Devon,K., Dewar,K., Doneilan,L., Ferreira,P., Fitzlugh,W., Forrest,C., Funke,R., Gage,D., Gargyna,S., Geraijery,K., Grant,G., Hagos,B., Headford,A., Heden,L., Horton,L., Howland,J.C., Jacotot,L., Jones,C., Kann,L., Karats,A., Lehoczy,J., Macdonald,P., Margulis,N., McEwan,P., McMurk,A., McKernan,K., Meldrim,J., Molla,M., Morris,W., Morrow,J., Mychalckyj,J., Nahf,R., Naylor,J., Niloff,M., O'Connor,T., O'Donnell,P., Pavlin,B., Peterson,K., Riley,R., Roberts,D., Roy,A., Severy,P., Stange-Thomann,N., Stillwell,J., Stojanovic,N., Stone,C., Subramanian,A., Tesfaye,S., Tichovolsky,N., Torruella-Miller,I., Vassiliev,H., Vo,A., Wagner,A., Wheeler,J., Wu,Y., Wyman,D., Ye,W.J., Zhao,J. and Zody,M. | | | | |
| JOURNAL | Direct Submission | | | | |
| REFERENCE | Submitted (30-Oct-1998) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA | | | | |
| AUTHORS | On Oct 30, 1998 this sequence version replaced gi:3805774. | | | | |
| COMMENT | All repeats were identified using RepeatMasker: Smlt, A.F.A. & Green,P. (1996-1997) | | | | |
| FEATURES | http://ftp.genome.washington.edu/RM/RepeatMasker.html. | | | | |
| SOURCE | Location/Qualifiers | | | | |
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| repeat_region | 4194, .4241 /rpt_family="(TA)n" |
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| repeat_region | 4838, .514 /rpt_family="AluSg" |
| repeat_region | 5301, .5327 /rpt_family="(AT_rich" |
| repeat_region | complement(5693, .5813) /rpt_family="AluUo" |
| repeat_region | complement(5814, .6104) /rpt_family="AluSp" |
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| repeat_region | 6858, .7027 /rpt_family="MIR" |
| repeat_region | 7052, .7121 /rpt_family="L1ME2" |
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| repeat_region | 18378, .18683 /rpt_family="AluUo" |
| repeat_region | 19756, .19797 /rpt_family="(CA)n" |
| repeat_region | 20115, .20214 /rpt_family="(CA)n" |
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| | repeatL_region | /rpl_family="LMCS" | 38789. | .39066 | |
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| Matches 800: | Conservative | 0: | Mismatches | 3: | Indels |
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| Db | 124886 AGAAGCACACACATACCGGAGCTGCCGACAGAGTGCGGGAGACGCTGGGTCCCTCCCGC | | | | 124827 |
| Oy | 2876 agagacttggtgctactcaagtcctcgattcccccaactctctgacacaaactaacggy | | | | 2935 |
| Db | 124826 ACGACTTCGTGTGCTACTTCAATCATCTCGTTCCCCACCCTCTCCGACACACCTATCCGG6 | | | | 124767 |
| Oy | 2936 ccataggagtgtgcagccagagagactcttcacagccctactacttccacagcccccg | | | | 2995 |
| Db | 124766 CCATGAGAGTGTCGACGCCACGAGAGAGCTTTCACAGCCCTACTTCCACGAGCCCCCAG | | | | 124707 |
| Oy | 2996 agcccacccccagttgactcacagagccctctgagcgaggcgcccttgtctcgtg | | | | 3055 |

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| Db 124706 | AGCCCCAGCCCCAGCTGACTGCACAGCGCCCTCTGTGAGCAGAGGCGGCCCCCTCTGTGTTCTGCT | 124647 | |
| QY | 3056 | ggccccagctgtgactgtgagggcgctgtgtacacacaattagaactgtgacttcccgcttc | 3115 |
| Db 124646 | GGCCCCACCTGTGACTGTGAGGGCGCTGGTACCAACAATTGTAGACTTGTGATCCCTCCGGCTTT | 124587 | |
| QY | 3116 | gaagggagagcagcgcttcccaacaaagtgcctctgactgactgtcctctgtcagccacaaga | 3175 |
| Db 124586 | GCAGGGAGACCAACGCGTTCCCAAAACCAAGTGGCTTGAGCTGGCTGCTGTGACAGCCACAGCA | 124527 | |
| QY | 3176 | ggacagtgctgaccccccaagagtgaggagaatgagccctgtgacattacaggaacttgg | 3235 |
| Db 124526 | GGACAGTCTCTGACCCACAGGAAGTGGGAAGAGGGCGCCCTCGTGAACCTTCAGAGAACTGGG | 124467 | |
| QY | 3236 | aagatgcctgcccccaaaaagccttaagcgatcatgtcttcgaagaaggagcgctcagagaca | 3295 |
| Db 124466 | AGAGTGTCTGGCCCCAAAAGCCTTACGGTCAATGATGTCTTCGAAAAGAGGGCCTCAGAGACA | 124407 | |
| QY | 3296 | gcgcgagtagaacacccccacacatctactctgataaaactgtctcagacttttaattcct | 3355 |
| Db 124406 | GGCGAGTAGAGCACCCCCAGCCATCTACTGGATTAACCTTGCTTCAGACTTTTAAATTCC | 124347 | |
| QY | 3356 | gcttaattcagctcacaggccttccaagaaaggagaaaggagatcgtaacttggct | 3415 |
| Db 124346 | GCTTAATGTCACTGATTCACAGCGCTTTTCAGAAAGGAGAGAGAACTCAATTTTGGCTT | 124287 | |
| QY | 3416 | gcgtctctggagcaagcttaagcttgagatactgacccaagtacagccttcaacttgagacaggaa | 3475 |
| Db 124286 | CGGTCTGGGACAGCTAGCGTGAATGCACACCAAGTACAGCCTTCACTGAGACCGGAATT | 124227 | |
| QY | 3476 | gagaggtgtggggatgctctgaagagagggggagacagaggttccaagggtgtgcgtcccgagta | 3535 |
| Db 124226 | GAGAGCTGGGGGATCTCAGAGGGGGAGAGCGGAGGTTCAAGAGGGTGTCTGCTGCGCACTG | 124167 | |
| QY | 3536 | tgaagcttctccatgatcatcacagatgtgcaccagagtacgccaggtcactcgttaactagtgt | 3595 |
| Db 124166 | TGAGATTTCTCATTTGATGCACAGATGTGCCCAAGTAGCCAGTGTCATTAAGTACTGATGT | 124107 | |
| QY | 3596 | tctgcagagagcagcaggaacca | 3618 |
| Db 124106 | TTCTGTCAGAGGCGACGACGAGCA | 124084 | |
| RESULT 5 | | | |
| AB047079 | | | |
| LOCUS | 2874 bp | mRNA | PRI |
| DEFINITION | Homo sapiens IRE1b mRNA for protein kinase/ribonuclease IRE1 beta, complete cds. | | 24-JAN-2001 |
| ACCESSION | AB047079 | | |
| VERSION | AB047079.1 | | |
| KEYWORDS | AB047079.1 GI:12407080 | | |
| SOURCE | Homo sapiens lung fibroblast cell_line:human embryonic lung cDNA to mRNA. | | |
| ORGANISM | Homo sapiens | | |
| REFERENCE | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. | | |
| AUTHORS | 1 (sites) | | |
| TITLE | Iwakaki,T., Hosoda,A., Okuda,T., Kamigori,Y., Nomura-Furuwatari,C., Kinata,Y., Tsuru,A. and Kohno,K. | | |
| JOURNAL | Translational control by the ER transmembrane kinase/ribonuclease IRE1 under ER stress | | |
| MEDLINE | Nat. Cell Biol. 3 (2), 158-164 (2001) | | |
| REFERENCE | 2113121 | | |
| AUTHORS | 2 (bases 1 to 2874) | | |
| TITLE | Hosoda,A., Iwakaki,T. and Kohno,K. | | |
| JOURNAL | Direct Submission | | |
| FEATURES | Submitted (08-AUG-2000) Kenji Kohno, Nara Institute of Science and Technology, Research and Education Center for Genetic Information; 8916-5 Takayama, Ikoma, Nara 630-0101, Japan | | |
| | (E-mail:khouno@ds.aisi-nara.ac.jp, URL:http://gicw2.aisi-nara.ac.jp/HOMEPAGE/kouzu/kouno/index.html, Tel:81-743-72-5640, Fax:81-743-72-5649) | | |
| | Location/Qualifiers | | |

[illegible]

| | | | |
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| OY | 575 | aatcacccattacacaaagtataagacaaccaaaaaccggaggactcgcggtggaatgatccactact | 634 |
| Dd | 548 | AGTATACGGGTACCATTCACTGACACCCAAAGGCCCCAGCCTCGTGCGTAACAACCACTCAC | 607 |
| OY | 635 | ttagactatgycgtctcaactctcgtaagaagaagggaactacaagaatgtccacttttgt | 694 |
| Dd | 608 | GCCCCTACTCAGGCGCCCCCATGATGGCTCAACCCGGGAATAATGAGCCACCTGGCGT | 667 |
| OY | 655 | cgaatgatgatatgagctcgtgtgttactcgttgaaatfgaatctggggaaagtcctgtgtatcc | 754 |
| Dd | 668 | CCTTTGGGATGGGGCTCTCTCTACTGCTGAGCCCAAGAAAGTGGGCATGCTGTGGACAC | 727 |
| OY | 755 | aaactaacgcctcccctctgtgtgaccttatcatgtctcggcaagcggaaggtcttgagaag | 814 |
| Dd | 728 | AAGAAGTCGGGAGTAGCTGTATGTGGGGTTTACACTGGCACAGSAGCGCTGGCCAGC | 787 |
| OY | 815 | ttagtacatcaaalbtgcgtctgttgagaacctgcgtatcttgaaacttcatgtcttgaggag | 874 |
| Dd | 788 | TGCGGCAATCTACCCCTGGCGTCGAGACACTCTCATTTCTCGCCCTCGCGTGGGGCCACA | 847 |
| OY | 875 | tggg----ggcatatacaaanagtgaatatccogtltccccaaagaagacaaaggccaagaca | 931 |
| Dd | 848 | TCCGACTGCTGCTCTCAGGGCCCCCAAGAACACAGCACCTCTTCTCTGCTTGATATCCC | 907 |
| OY | 932 | agctgaagcccaactctgtatgttttggaanaatactataccaagcctatagctctctccaa | 991 |
| Dd | 908 | AGCTGTGATGACACTGTATGTAGTGAAGAGATGAATAAGCGTTTATGTCTCTAATACAC | 967 |
| OY | 992 | tgtatacagaggggtgtgtcgt | 1051 |
| Dd | 968 | TGTGTTCACACAGAGATGGCCCTCTGTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT | 1027 |
| OY | 1052 | cccaagactgatgtgtgtcaaccatcgtgggaacaaaggagtgatgtgtatcaagcccaagag | 1111 |
| Dd | 1028 | CGACACAGATGATGAGTGTACACTCTCAAGTCTCAAGAGAGAGAGAGAGGCTCACCCAGCACTG | 1087 |
| OY | 1112 | acgtcaagtlgtatgccggaactcaaaaaagaacaagaactcaactacttgaagaattact | 1171 |
| Dd | 1088 | CTGTATATATACCCCTCAGGAGATGTTGGCCC-----TCCCAAGCCAGT | 1129 |
| OY | 1172 | ggctctcgaatagacacacatgaanaaccacactgtctgtgtltaaccaagaatttgagaat | 1231 |
| Dd | 1130 | GGCTGCTCATTTGGACACACAGCACTCACCCCACTCTGCACACTACATGCTTAGAGGCTC | 1189 |
| OY | 1232 | ttcccaacaactatacccaaaaatcvggaanaatgttatctctgtatcataagaaaaaga | 1291 |
| Dd | 1190 | ATCCCAACCCCGGGAGTGGAACTGACAGAGACAAGACCCCAAGAMAACCCAGGCCCCAG | 1249 |
| OY | 1292 | gctttggaggaaatlataaccclygtltgaccagaactcgaanaaagacactataceacgtgt | 1351 |
| Dd | 1250 | CCTT-----CTTCTTGGACCTATTATGAGCTTAGCTGATGAGAAACTTTTGGATCTCCAGC | 1303 |
| OY | 1352 | ctcggagatgttgagaagaagcccgcacatgcgtcccctgcggcgccgaagcccctgyact | 1411 |
| Dd | 1304 | TGC-----ATCCAGAAAGAAAAGATTTCCGGAGCTCTTACCTCGGGGCTGGGGACCCC----- | 1351 |
| OY | 1412 | ccatgtctaagagacatgtgtacatcalatcccttgagaacactctcgtctgtatgtgtggtg | 1471 |
| Dd | 1352 | -----AAGACCTGCTGTGGCAGCTAGCTACCTACCTGCTCTCTCTGTGGAGGGTGGATTTC | 1402 |
| OY | 1472 | ccctcatcatcatcaactatccccctgagatgcatcagcagcagagagcttcaagacaagagt | 1531 |
| Dd | 1403 | TATTTTGTGAT----- | 1412 |
| OY | 1532 | tccagaagaacttggagaagaatlcgaactctctcgaagacagcagagcagctgtcccttc | 1591 |
| Dd | 1413 | -----GAGCAGACACGCCCAAGTAGTGTGGAGAAAGACAGACGAGACACCCCC | 1456 |
| OY | 1592 | accacacttgagaagacagcgtcaggaagcggaagctctcttgagaacagtbltgcccgtactcag | 1651 |
| Dd | 1457 | TGTGTACTCGACAGACAGCTGCGA----- | 1478 |

1652 agagctcgagaccagcagcccaagcagctcccccagggcctcccaaccactcgcctcgt 1711
1479 -----CATTCGCCAGATGCGCACTCCCTGCATCTCGGGGGGTCACCTGAGAGCAAGAA 1532
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ACCESSION AX056432.1 GI:12229139
VERSION AX056432.1
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ORGANISM human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 2769)
AUTHORS Plozman,G.D., Martinez,R., Whyte,D. and Sudersanam,S.
TITLE Protein kinases
JOURNAL Patent: WO 0073469-A 76 07-DEC-2000;
Sugen, Inc. (US)

FEATURES
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BASE COUNT 553 a 895 c 809 g 512 t
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| DEFINITION | Mus musculus Irel (irel) mRNA, complete cds. | | 17-OCT-1998 |
| ACCESSION | AF071777 | | |
| VERSION | AF071777.1 | GI:3766208 | |
| KEYWORDS | house mouse. | | |
| SOURCE | Mus musculus | | |
| ORGANISM | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murine; Mus. | | |
| REFERENCE | 1 (bases 1 to 2887) | | |
| AUTHORS | Wang,X.Z., Harding,H.P., Zhang,Y., Jolicoeur,E.M., Kuroda,M. and Ron,D. | | |
| TITLE | Cloning of mammalian Irel reveals diversity in the ER stress responses | | |
| JOURNAL | EMBO J. 17 (19), 5708-5717 (1998) | | |
| MEDLINE | 98429494 | | |
| REFERENCE | 2 (bases 1 to 2887) | | |
| AUTHORS | Wang,X.Z., Harding,H.P. and Ron,D. | | |
| TITLE | Direct Submission | | |
| JOURNAL | Submitted (11-JUN-1998) Skirball Institute, New York University Medical Center, 540 First Avenue, New York, NY 10012, USA | | |
| ATTRES | Location/Qualifiers | | |
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| Db | Best Local Similarity | 55.2%; | Pred. No. 2e-117; | | | |
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| Oy | 321 | agatlcctaagtatgycagccctgtataagcttggaaagacaagataatgaagccttgaagaa | 380 | | | |
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| Db | 389 | CITTTACACAGGCCCGGAAGCACAGATGCTTGTTTTTAATGGACCTTGATCAGGGGAAC | 448 | | | |
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| Db | 614 | GAGCCACCTCGACATCTCTGTGGGATGGGCCCTGTTTCTACTGTGANTCCAGGAAGTGGAAAT | 673 | | | |
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| Oy | 801 | gggtctgaagaaagtgtatgcaataaigtctgtgtgaagaccctgcgctatctgaactt | 860 | | | |
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Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 70508)
AUTHORS Birren,B., Linton,L., Nusbaum,C. and Lander,E.
TITLE Homo sapiens chromosome, clone RP11-9J12
JOURNAL Unpublished
AUTHORS 2 (bases 1 to 70508)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Allen,N., Anderson,M.,
Baldwin,J., Barna,N., Beckert,R., Boguslavsky,L., Boukhalter,B.,
Brown,A., Castle,A., Colangelo,M., Collins,S., Collymore,A.,
Cooke,P., Dearrellano,K., Dewar,K., Domino,M., Donelan,L., Doyle,M.,
Ferreira,P., Fitzhugh,W., Forrest,C., Funke,R., Gage,D.,
Galagan,J., Gardyna,S., Grant,G., Hagos,B., Hearford,A., Horton,L.,
Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J.,
Lenoczky,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N.,
McEwan,P., McGurk,A., McKernan,K., McLaughlin,J., Meldrum,J.,
Morrow,J., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
Teefaye,S., Tirrell,A., Vassiliev,H., Vo,A., Wheeler,J., Wu,X.,
Wyman,D., Ye,W.J., Zimmer,A. and Zody,M.
Direct Submission
Submitted (05-DEC-1999) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jul 13, 2000 this sequence version replaced gi:6538797.
All repeats were identified using RepeatMasker:
Smt, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www.seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L3011
Center clone name: 9_J_12

* NOTE: This record contains 80 individual
* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.
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* 22055 22839: contig of 785 bp in length
* 22840 22939: gap of 100 bp
* 22940 23724: contig of 785 bp in length
* 23725 23824: gap of 100 bp
* 23825 24606: contig of 782 bp in length
* 24607 24706: gap of 100 bp
* 24707 25472: contig of 766 bp in length
* 25473 25572: gap of 100 bp
* 25573 26362: contig of 790 bp in length
* 26363 26462: gap of 100 bp
* 26463 27247: contig of 785 bp in length
* 27248 27347: gap of 100 bp
* 27348 28113: contig of 766 bp in length
* 28114 28213: gap of 100 bp
* 28214 29011: contig of 798 bp in length
* 29012 29111: gap of 100 bp
* 29112 29898: contig of 787 bp in length
* 29899 29998: gap of 100 bp
* 29999 30779: contig of 781 bp in length
* 30780 30879: gap of 100 bp
* 30880 31679: contig of 800 bp in length
* 31680 31779: gap of 100 bp
* 31780 32633: contig of 854 bp in length
* 32634 32733: gap of 100 bp
* 32734 33490: contig of 757 bp in length
* 33491 33590: gap of 100 bp
* 33591 34362: contig of 772 bp in length
* 34363 34462: gap of 100 bp
* 34463 35229: contig of 767 bp in length
* 35230 35329: gap of 100 bp
* 35330 36093: contig of 764 bp in length
* 36094 36193: gap of 100 bp
* 36194 36953: contig of 760 bp in length
* 36954 37053: gap of 100 bp
* 37054 37857: contig of 804 bp in length
* 37858 37957: gap of 100 bp
* 37958 38752: contig of 795 bp in length
* 38753 38852: gap of 100 bp
* 38853 39662: contig of 810 bp in length
* 39663 39762: gap of 100 bp
* 39763 40549: contig of 787 bp in length
* 40550 40649: gap of 100 bp
* 40650 41424: contig of 775 bp in length